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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/655,904	09/05/2003	James D. Parsons	378-21-034	7685
23935 7	590 08/05/2005		EXAM	INER
	COBS, PATRICK &	GABOR, OTILIA		
555 ST. CHARLES DRIVE SUITE 107			ART UNIT	PAPER NUMBER
THOUSAND OAKS CA 91360			2070	

DATE MAILED: 08/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/655,904	PARSONS, JAMES D.
Office Action Summary	Examiner	Art Unit
	Otilia Gabor	2878
The MAILING DATE of this communication Period for Reply	appears on the cover sheet v	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. t. 1.136(a). In no event, however, may a reply within the statutory minimum of the iod will apply and will expire SIX (6) MO atute, cause the application to become A	reply be timely filed irry (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on 25 2a)⊠ This action is FINAL. 2b)□ T 3)□ Since this application is in condition for allocation accordance with the practice under the condition of the condition	his action is non-final. wance except for formal ma	•
Disposition of Claims		
4) ⊠ Claim(s) 1-26 is/are pending in the applicat 4a) Of the above claim(s) is/are witho 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-26 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction an	drawn from consideration.	
Application Papers		•
9) The specification is objected to by the Exam 10) The drawing(s) filed on 05 September 2003 Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	is/are: a)⊠ accepted or b) the drawing(s) be held in abeya rection is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	ents have been received. ents have been received in priority documents have bee reau (PCT Rule 17.2(a)).	Application No n received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892)		Summary (PTO-413)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 		o(s)/Mail Date Informal Patent Application (PTO-152)

Response to Amendment

1. The amendment filed 05/25/2005 has been entered.

Terminal Disclaimer

2. The terminal disclaimer filed on 05/25/2005 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of Patent 6,713,762 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-5, 7-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ichikawa (U. S. Patent 5,025,243).

Ichikawa discloses an electromagnetic radiation detection system and method (Fig.1A) comprising a body F of SiC (see Col.1, lines 49-50) at least 200 micrometer thick (see Col.1, line 64) and a detector (including electrodes A) arranged to detect infrared radiation absorption by the SiC body F (see Col.3, lines 43-64) and to detect changes in the resistance of the SiC body F in response to the body receiving radiation having a wavelength less than about 10 micrometers (see Col.3, lines 48-49). Ichikawa

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fails to specifically disclose that the radiation has a wavelength of less than 10 micrometers, however it would have been obvious to one having ordinary skill in the art at the time the invention was made to recognize that infrared radiation of the type irradiated to the body F in the system of Ichikawa is fairly described as radiation having a wavelength less than about 10 micrometers since the range covers the wavelength ranges described as "near" and "intermediate" infrared. Also, it would have been obvious to one of ordinary skill in the art at the time the invention was made that the detector in the system disclosed by Ichikawa was arranged to detect physico-chemical processes inside the body F which serve to explain the response of the body F to radiation. Ichikawa fails to specifically disclose that the thickness of the SiC body is at least 400 micrometers, however using a thicker body would have been obvious to one having ordinary skill in the art since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art (In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980)), and discovering the optimum or workable ranges involves only routine skill in the art (In re Aller, 220 F.2d 454, 105 USPQ 233, 235 (CCPA 1955)) especially given that a higher thickness for the SiC body does not improve the absorption but merely changes its size. Additionally, since Ichikawa does not disclose that the thickness of the body F changes throughout or that its surface roughness changes, it is assumed that the body F has uniform thickness and a flat surface.

Regarding claims 2, 10, 15, 20 Ichikawa discloses that the detector system detects infrared radiation absorption by the SiC body F (see Col.1, lines 54-58).

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Regarding claims 4, 12, 17, 21 Ichikawa discloses that the detector system detects increases in the resistance of the SiC body F in response to the radiation because increases are a part of the changes described in Col.1, lines 54-58.

Regarding claims 5, 13 Ichikawa places no limitation on the infrared radiation which irradiates the SiC body F and therefore it would have been obvious to one having ordinary skill in the art to retain the features described at Col.1, lines 14-18 and implement the system for a broad band of wavelengths or a narrow band of wavelengths creating the arrangement of a filter. A filter to limit reception of specific radiation is a routine approach in this field.

Response to Arguments

5. Applicant's arguments filed 05/25/2005 have been fully considered but they are not persuasive. The argument that the reference does not disclose the claimed less than 10 micrometer wavelength is not persuasive because, as clearly stated in the rejection, the reference discloses the IR spectrum which inherently includes the "near" and the "intermediate" IR range and thus it includes the 0.7-8 micrometer range. The argument that the reference does not disclose the claimed 400 micrometer thick SiC body is not persuasive, because the reference does include a thickness of 200 micrometers which is enough to create acoustic absorption in the body. If this is not so then the present application which discloses a range of "at least 200 micrometers" would not be enabled to create acoustic absorption in the SiC body either (see page 3, lines 8-10 of the specification).

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Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Otilia Gabor whose telephone number is 571-272-2435. The examiner can normally be reached on Monday, Thursday-Friday between 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on 571-272-2444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Otilia Gabor Primary Examiner

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OTILIA GABOR PRIMARY EXAMINER